

SAFETY DATA SHEET

1. SUBSTANCE AND SOURCE IDENTIFICATION

Product Identifier

SRM Number: 69b

SRM Name: Bauxite (Arkansas)

Other Means of Identification: Not applicable.

Recommended Use of This Material and Restrictions of Use

This Standard Reference Material (SRM) is intended primarily for use in evaluating chemical and instrumental methods of analysis. A unit of SRM 69b consists of 60 g of fine powder (<0.08 mm).

Company Information

National Institute of Standards and Technology Standard Reference Materials Program 100 Bureau Drive, Stop 2300 Gaithersburg, Maryland 20899-2300

Telephone: 301-975-2200 Emergency Telephone ChemTrec: FAX: 301-948-3730 1-800-424-9300 (North America) E-mail: SRMMSDS@nist.gov +1-703-527-3887 (International) Website: http://www.nist.gov/srm

2. HAZARDS IDENTIFICATION

Classification

Physical Hazard: Not classified. **Health Hazard:** Not classified.

Label Elements

Symbol: No symbol or pictogram. **Signal Word:** No signal word.

Hazard Statement(s): Not applicable.

Precautionary Statement(s): Not applicable.

Hazards Not Otherwise Classified: Not applicable.

Ingredients(s) with Unknown Acute Toxicity: Not applicable.

3. COMPOSITION AND INFORMATION ON HAZARDOUS INGREDIENTS

Substance: Bauxite

Other Designations: Al₂O₃·XH₂O; florite; porocel; porocel O; flouride; beauxite

Components are listed in compliance with OSHA's 29 CFR 1910.1200. The material contains trace amounts of other oxide components; for the actual values see the NIST Certificate of Analysis. The Certificate of Analysis reports the concentrations of the individual constituents as oxides. The oxides are not freely available in the material as sold. The health and safety information provided in this SDS are for bauxite, not for its individual constituents. This material does not contain free crystalline silica, quartz; silicon oxide is present but in form of silicates.

Component	CAS Registry	EC Number (EINECS)	Nominal Concentration (%)
Bauxite	1318-16-7	603-521-7	100

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4. FIRST AID MEASURES

Description of First Aid Measures:

Inhalation: If adverse effects occur, remove to uncontaminated area. If not breathing, give artificial respiration or oxygen by qualified personnel. Seek immediate medical attention.

Skin Contact: Wash skin with soap and water.

Eye Contact: Flush eyes with water for at least 15 minutes. If necessary, seek medical attention.

Ingestion: If adverse effects occur after ingestion, seek medical treatment.

Most Important Symptoms/Effects, Acute and Delayed: Exposure may cause mechanical irritation.

Indication of any immediate medical attention and special treatment needed, if necessary: If any of the above symptoms are present, seek medical attention if needed.

5. FIRE FIGHTING MEASURES

Fire and Explosion Hazards: Negligible fire hazard. Avoid generating dust. See Section 9, "Physical and Chemical Properties" for flammability properties.

Extinguishing Media:

Suitable: Regular dry chemical, carbon dioxide, water, regular foam.

Unsuitable: None listed.

Specific Hazards Arising from the Chemical: None listed.

Special Protective Equipment and Precautions for Fire-Fighters: Avoid inhalation of material or combustion byproducts. Wear full protective clothing and NIOSH approved self-contained breathing apparatus (SCBA).

NFPA Ratings (0 = Minimal; 1 = Slight; 2 = Moderate; 3 = Serious; 4 = Severe)

Health = 1 Fire = 0 Reactivity = 0

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures: Any accumulated material on surfaces should be removed and properly disposed of. Use suitable protective equipment; see Section 8, "Exposure Controls and Personal Protection".

Methods and Materials for Containment and Clean up: Collect spilled material in appropriate container for disposal. Keep out of water supplies and sewers. Keep unnecessary people away, isolate hazard area and deny entry.

7. HANDLING AND STORAGE

Safe Handling Precautions: Minimize dust generation and accumulation on surfaces. Routine housekeeping should be instituted to ensure that dust does not accumulate on surfaces. See Section 8, "Exposure Controls and Personal Protection". Avoid contact with incompatible materials (see Section 10, "Stability and Reactivity").

Storage: Store and handling in accordance with all current regulations and standards.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Limits: No occupational exposure limits have been established for bauxite. This material is a particulate matter and adequate inhalation/respiratory protection should be used to minimize exposure. The exposure limits for Particulates Not Otherwise Regulated (PNOR) are applicable.

OSHA (PEL): 15 mg/m³ (TWA, total particulates); 5 mg/m³ (TWA, respirable particulates)

NIOSH (REL): 10 mg/m³ (TWA, total particulates); 5 mg/m³ (TWA, respirable particulates)

Engineering Controls: Provide local exhaust or process enclosure ventilation system. Ensure compliance with applicable exposure limits.

Personal Protection: In accordance with OSHA 29 CFR 1910.132, subpart I, wear appropriate Personal Protective Equipment (PPE) to minimize exposure to this material.

Respiratory Protection: If workplace conditions warrant a respirator, a respiratory protection program that meets OSHA 29CFR 1910.134 must be followed. Refer to NIOSH 42 CFR 84 for applicable certified respirators.

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Eye/Face Protection: Wear splash resistant safety goggles with a face shield. An eye wash station should be readily available near areas of use.

Skin and Body Protection: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Chemical-resistant gloves should be worn at all times when handling chemicals.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, color, etc.) Molecular Formula Molecular Formula Molar Mass (g/mol) Odor not available Odor Odor threshold pH not available Nelting point/freezing point Density (specific gravity) Vapor Pressure Vapor Density (air = 1) Viscosity (cP) Solubility(ies) Partition coefficient (n-octanol/water) Nominal Particle Size Thermal Stability Properties Autoignition Temperature Thermal Decomposition Initial boiling point and boiling range Explosive Limits, LEL (Volume %) Plash Point Flammability (solid, gas) not available Thermal Stability Properties Autoignition Temperature Autoignition Temperature Thermal Decomposition not available initial boiling point and boiling range Explosive Limits, LEL (Volume %) Plash Point Flammability (solid, gas) not available 10. STABILITY AND REACTIVITY Reactivity: Stable at normal temperatures and pressure. Stability: X Stable Unstable Possible Hazardous Reactions: None listed. Conditions to Avoid: Avoid generating dust. Avoid heat, flames, sparks, and other sources of ignitions. Avoid contact with incompatible materials. Incompatible Materials: Bases, halogens, acids, metal salts, metals, oxidizing materials, combustible materials. Fire/Explosion Information: See Section 5, "Fire Fighting Measures". Hazardous Polymerization: Will Occur X Will Not Occur 11. TOXICOLOGICAL INFORMATION Route of Exposure: X Inhalation X Skin Ingestion Symptoms Related to the Physical, Chemical and Toxicological Characteristics: May aggravate respiratory	Descriptive Properties	Bauxite			
Molar Mass (g/mol) Odor Odor Odor Odor	Appearance (physical state, color, etc.)	powder			
Odor threshold not available not available pH not available not available pH not available not available Melting point/freezing point not available Melting point/freezing point not available Density (specific gravity) 2 to 2.55 Vapor Pressure not available Vapor Density (air = 1) not available Viscosity (cP) not available Solubility(ies) water: insoluble Partition coefficient (n-octanol/water) not available Nominal Particle Size 80 µm Thermal Stability Properties Autoignition Temperature not available Initial boiling point and boiling range not available Explosive Limits, LEL (Volume %) not available Explosive Limits, UEL (Volume %) not available Flammability (solid, gas) not available not available Flammability (solid, gas) not available Not available Flammability (solid, gas) not available Not available Not available Not available Flammability (solid, gas) not available Not availabl	Molecular Formula	$Al_2O_3 \cdot X(H_2O)$			
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Evaporation rate	Odor threshold	not available			
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	11. TOXICOLOGICAL INFORMATION				
	Route of Exposure: X Inhalation X	K Skin Ingestion			

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Potential Health Effects (Acute, Chronic, and Delayed)

Inhalation: Irritation.

Skin Contact: May cause mechanical irritation. **Eye Contact:** May cause irritation or eye damage.

Ingestion: May cause irritation.

Numerical Measures of Toxicity

Acute Toxicity: Not classified.

Skin Corrosion/Irritation: No data available.

Serious Eye Damage/Eye Irritation: No data available.

Respiratory Sensitization: No data available.

Skin Sensitization: No data available.

Germ Cell Mutagenicity: No data available.

Carcinogenicity: Not classified.

Listed as a Carcinogen/Potential Carcinogen

_____ X Yes _____ No

Bauxite is not listed by OSHA, IARC, or NTP as a carcinogen/potential carcinogen.

Reproductive Toxicity: No data available.

Specific Target Organ Toxicity, Single Exposure: No data available.

Specific Target Organ Toxicity, Repeated Exposure: No data available.

Aspiration hazard: Not applicable.

12. ECOLOGICAL INFORMATION

Ecotoxicity Data: No data available.

Persistence and Degradability: No data available. **Bioaccumulative Potential:** No data available.

Mobility in Soil: No data available.

Other Adverse effects: No data available.

13. DISPOSAL CONSIDERATIONS

Waste Disposal: Dispose of waste in accordance with all applicable federal, state, and local regulations.

14. TRANSPORTATION INFORMATION

U.S. DOT and IATA: Not regulated by DOT or IATA.

15. REGULATORY INFORMATION

U.S. Regulations:

CERCLA Sections 102a/103 (40 CFR 302.4): Not regulated.

SARA Title III Section 302 (40 CFR 355.30): Not regulated.

SARA Title III Section 304 (40 CFR 355.40): Not regulated.

SARA Title III Section 313 (40 CFR 372.65): Not regulated.

OSHA Process Safety (29 CFR 1910.119): Not regulated.

SARA Title III Sections 311/312 Hazardous Categories (40 CFR 370.21):

ACUTE HEALTH: No CHRONIC HEALTH: No FIRE: No REACTIVE: No PRESSURE: No

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State Regulations:

California Proposition 65: Not listed.

U.S. TSCA Inventory: Bauxite is not listed.

TSCA 12(b), Export Notification: Bauxite is not listed.

Canadian Regulations: WHMIS Information is not provided for this material.

16. OTHER INFORMATION

Issue Date: 22 December 2014

Sources: ChemADVISOR, Inc., SDS, *Bauxite*, 19 June 2014.

29 CFR Occupational Health and Safety Office (OSHA) 1910.1000, Limits for Air Contaminants,

Table Z-1; available at

http://www.osha.gov/pls/oshaweb/owadisp.show_document?p_table=STANDARDS&p_id=9992

(accessed DecS 2014).

Center for Disease Control (CDC) NIOSH Pocket Guide to Chemical Hazards, *Particulates not otherwise regulated*; available at http://www.cdc.gov/niosh/npg/npgd0480.html (accessed Dec 2014).

Key of Acronyms:

ACGIH	American Conference of Governmental Industrial	NRC	Nuclear Regulatory Commission
	Hygienists		
ALI	Annual Limit on Intake	NTP	National Toxicology Program
CAS	Chemical Abstracts Service	OSHA	Occupational Safety and Health Administration
CERCLA	Comprehensive Environmental Response,	PEL	Permissible Exposure Limit
	Compensation, and Liability Act		
CFR	Code of Federal Regulations	RCRA	Resource Conservation and Recovery Act
DOT	Γ Department of Transportation		Recommended Exposure Limit
EC50	Effective Concentration, 50 %	RM	Reference Material
EINECS	European Inventory of Existing Commercial Chemical	RQ	Reportable Quantity
	Substances		
EPCRA	Emergency Planning and Community Right-to-Know	RTECS	Registry of Toxic Effects of Chemical Substances
	Act		
IARC	International Agency for Research on Cancer	SARA	Superfund Amendments and Reauthorization Act
IATA	International Air Transportation Agency	SCBA	Self-Contained Breathing Apparatus
IDLH	Immediately Dangerous to Life and Health	SRM	Standard Reference Material
LC50	Lethal Concentration, 50 %	STEL	Short Term Exposure Limit
LD50	Lethal Dose, 50 %		Threshold Limit Value
LEL	L Lower Explosive Limit		Threshold Planning Quantity
MSDS	Material Safety Data Sheet	TSCA	Toxic Substances Control Act
NFPA	National Fire Protection Association	TWA	Time Weighted Average
NIOSH	National Institute for Occupational Safety and Health	UEL	Upper Explosive Limit
NIST	National Institute of Standards and Technology	WHMIS	Workplace Hazardous Materials Information System

Disclaimer: Physical and chemical data contained in this SDS are provided only for use in assessing the hazardous nature of the material. The SDS was prepared carefully, using current references; however, NIST does not certify the data in the SDS. The certified values for this material are given in the NIST Certificate of Analysis.

Users of this SRM should ensure that the SDS in their possession is current. This can be accomplished by contacting the SRM Program: telephone (301) 975-2200; fax (301) 948-3730; e-mail srmmsds@nist.gov; or via the Internet at http://www.nist.gov/srm.

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